

ABSTRACT OF THE DISCLOSURE

The present invention is drawn to ink-vehicle compositions and systems adapted for use in low dye load ink compositions, contain no salts, and provide low orifice plate puddling. Specifically, a non-reactive ink-vehicle for low dye-load ink-jet inks can

5 comprise an effective amount of water; from 1% to 3% by weight of a 1,5-pentanediol co-solvent; from 7.5% to 15% by weight of a trimethylolpropane co-solvent; and from 5% to 8% by weight of a third co-solvent, with the proviso that the ink-vehicle comprise at least 20% by weight of total co-solvent. Alternatively, a non-reactive ink-vehicle for low dye-load ink-jet inks can comprise an effective amount of water; from 1% to 3% by weight of
10 a 1,5-pentanediol co-solvent; from 7.5% to 15% by weight of a trimethylolpropane co-solvent; and from 0.05% to 0.25% of a buffer consisting essentially of 2-amino-2-(hydroxymethyl)-1,3-propanediol. These ink-jet ink vehicles can be used in swappable ink-jet pen systems having a common service station.